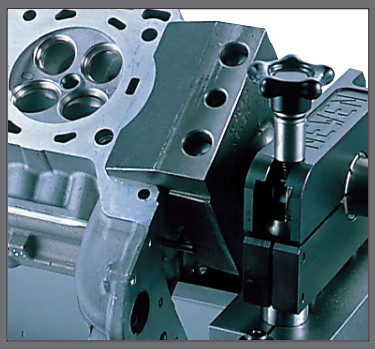
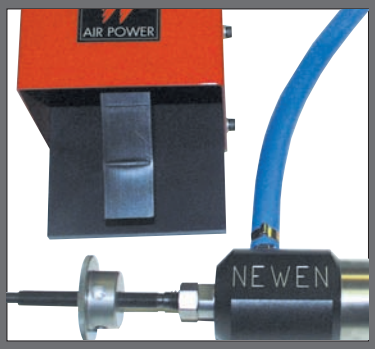
TOOLS, FIXTURES & ACCESSORIES

ENGLISH





NEWEN®

2008-2009 CATALOG

Elite Power Contouring

A COMPLETE RANGE

of CNC Valve Seat & Guide Machines

FOR ALL NEEDS

High-Performance

CONTOUR-BB™
All the **FIXED-TURNING®** qualities at the price of a traditional machine

CONTOUR™
The **FIXED-TURNING®** for seats ranging from 13 to 110mm **(.50"-4.33")** in diameter. 1600 mm long frame.

FIXED-TURNING®

EPOC™
the most complete offer from motorcycle to industrial applications; the choice of "creators" and developers...

EPOC-XL™
The **FIXED-TURNING®** XL … for large dimension industrial engines (any seat ranging from 13mm to 200mm⁺ **(.50"-7.87"⁺)** in diameter)

NEWEN®

NEWEN INC
8320 Miramar Mall • San Diego, CA 92121• USA
Tel: 1-858-457-9664 • Fax: 1-858-457-9665
Toll Free (USA & Canada): 1-800-639-3693
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www.newen.com

FIXED-TURNING®
World Patents: 6,086293; 6,382883B1; 6,382,884B1...

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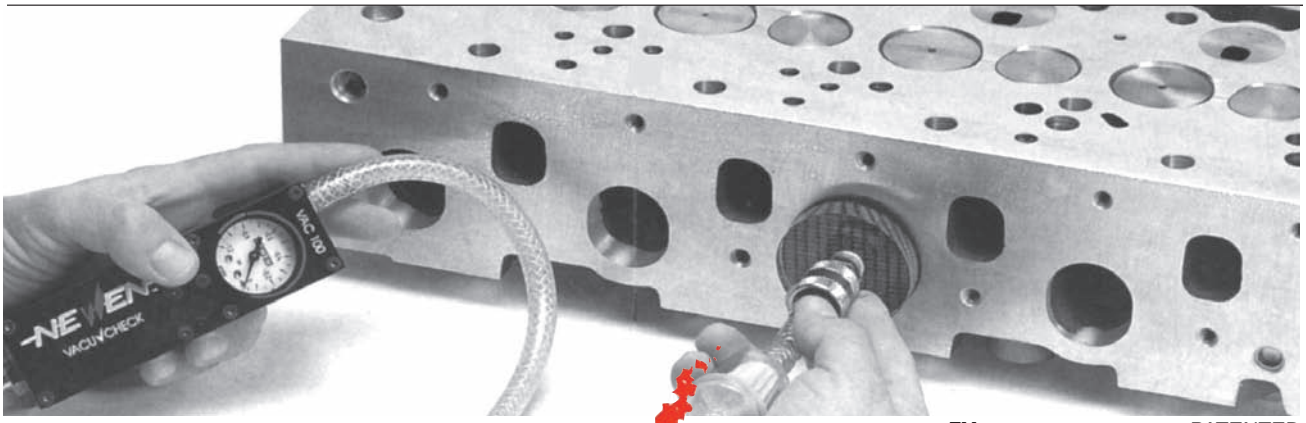
TABLE OF CONTENT

	Page(s)
Leak Down Vacuum Tester - VacuTcheck™	**4-5**
• Spare Parts	5
Pneumatic Impact Puller - TUG-GUN™	**6-10**
• TUG100	6
• Collet Charts	7-8
• Spare Parts	9-10
Pre-Combustion Counterboring Tool - PCC100™	**11-12**
• PCC100	11
• Accessories	12
• Spare Parts	12
Carbide Form Tip Sharpener	**13**
Clamping Fixtures	**14-19**
• Palletizable, 360°, Rollover Clamping Fixtures & Accessories	14-16
• Multi-angle Swing Cylinder Head Clamping Fixture	17
• Multi-angle Cylinder Head Clamping Fixture	17
• Side Clamping Fixture	18
• Accessories & Spare Parts	19
SPRING MASTER™ Accessories & Spare Parts	**20**



VACU✓CHECK™

PATENTED

LEAKDOWN DETECTION

What sets the Vacu**T**check™ apart from any other vacuum tester on the market are its two built-in non-return valves that actually hold the vacuum that it creates.

Once the vacuum is created, the built-in valves shut automatically and the vacuum is held within a totally airtight volume.

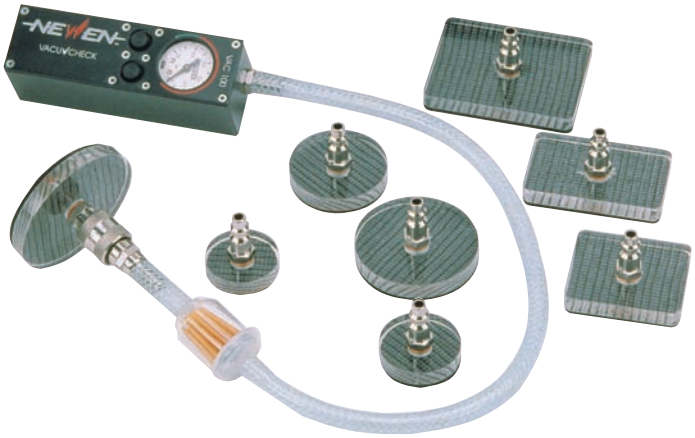
The gauge of the Vacu**T**check™ is installed in line within a totally airtight volume.

The gauge of the Vacu**T**check™ is installed in line with the above mentioned circuit and allows the Vacu**T**check™ user to measure any leak accurately, regardless of its size, including micro-leaks that tipically go unnoticed.
True leak detection can only occur after the pump is stopped.

Only Vacu**T**check™ lets you measure the leakdown time and detect leaks.

A two step process:
1. Create the vacuum
2. Monitor leak

VacuT**check™, another NEWEN® innovation....**



VAC100

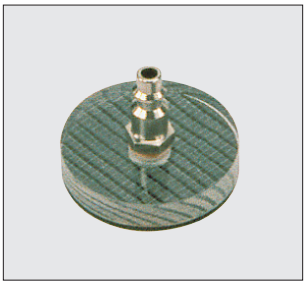
The Vacu**T**check™ comes in a sturdy, yet light-weight carrying case, with 8 pads and two in-line filters. It is easy to carry, fits comfortably in your hand and only requires an airline to be operated.

TECHNICAL CHARACTERISTICS	
Compressed Air:	
Pressure:	70 to 90 PSI (5 to 6 bars)
Air Flow:	1.12 cfm (0.53 l/second)
Depression:	
Maximum Vacuum:	28.1" Hg (-94kPa)
Time for evacuation of 1 liter of air	
	14.94" Hg (-50kPa) = 2 seconds
	23.91" Hg (-80 kPa) = 5 seconds
Sound level:	60 dB(A)
Temperature:	-4°F to +176°F (-20°C to + 80°C)

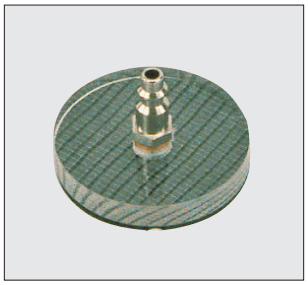
Email: contact@newen.com - **Website:** www.newen.com

VAC301
Replacement plexiglass plate
Round
Diameter: 42mm **(1.6535”)**

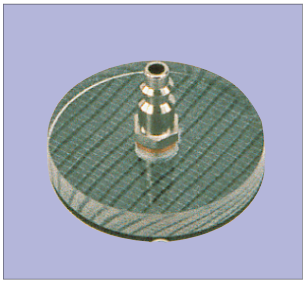
VAC302
Replacement plexiglass plate
Round
Diameter: 45mm **(1.7716”)**



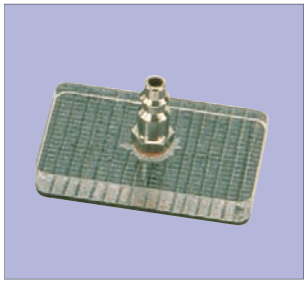
VAC303
Replacement plexiglass plate
Round
Diameter: 57mm **(2.2441”)**



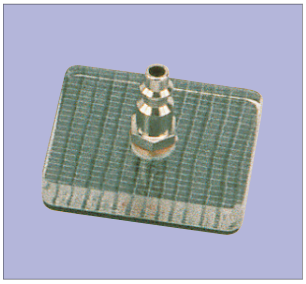
VAC304
Replacement plexiglass plate
Round
Diameter: 70mm **(2.7559”)**



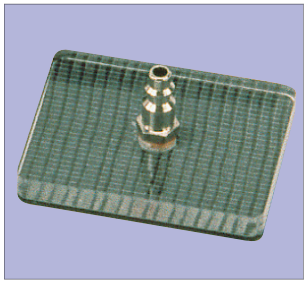
VAC305
Replacement plexiglass plate
Round
Diameter: 80mm **(3.1496”)**



VAC306
Replacement plexiglass plate
Rectangular
Dimensions: 50mm x 80mm
(1.9685” x 3.1496”)



VAC307
Replacement plexiglass plate
Rectangular
Dimensions: 55mm x 65mm
(2.1654” x 2.5591”)



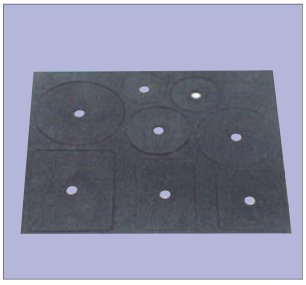
VAC308
Replacement plexiglass plate
Rectangular
Dimensions: 70mm x 90mm
(2.7559” x 3.5433”)

VAC323
Replacement in-line filter
(unit: one filter).

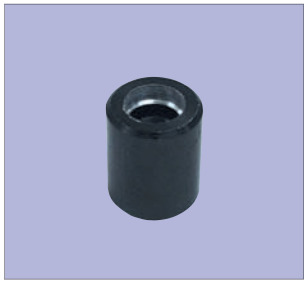
VAC329
Replacement vacuum chip.

VAC330
Replacement gauge.

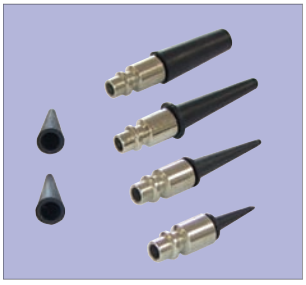
VAC308
Plexiglass Plate
Rectangular
Dimensions: 101.6mm X101.6mm
(4” x 4”)



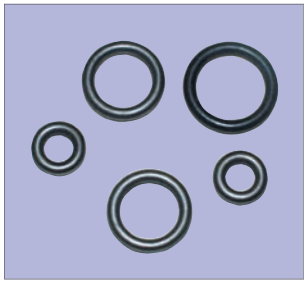
VAC311
Replacement pre-cut
self-adhesive foam pad
set *(100% compatible with
Serdi pads).*



VAC326
Aluminum plug for plexi-
glass plates.



VAC322
Quick Connection with rub-
ber tip for closed circuit.



VAC332
Replacement O-ring set.

NEWEN®

TOP 20 TOOLS MOTOR 1994

■ **TUG100**
TUG-GUN™, universal pneumatic impact puller.
Includes: (1) pneumatic impact puller, (1) foot pedal, (1) TUG600 - threaded shaft, (1) TUG602 - expansion nut, (1) TUG601 - set of 2 keepers, (1) TUG603 - wrench for expansion nut.

NEWEN® TUG-GUN™ (Patented)
PNEUMATIC IMPACT PULLER

Nothing resist the TUG-GUN™: oxidized studs, industrial engine valve seats, freeze plugs...

- Powerfull (2000 strikes per minute)
- Universal
- Ensures even pressure around the seat
- No damage to the cylinder head and seat counterbores (no gouges, no chew ups...)
- Fast
- Easy to use
- Portable
- Countless applications: Studs, axles, rings, bearing casings, valve inserts,
etc...

TUG-GUN™
by NEWEN®

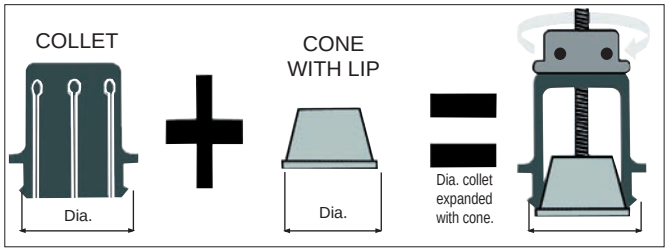
"Machinists faced with the task of extracting valve seat inserts have only a few removal options - lever-type pullers, expansion-type pullers or heating with a torch so that the cylinder head expands quickly enough to allow the insert to pop out. Unfortunately, all three methods have the potential to damage the head and/or seat counterbores.

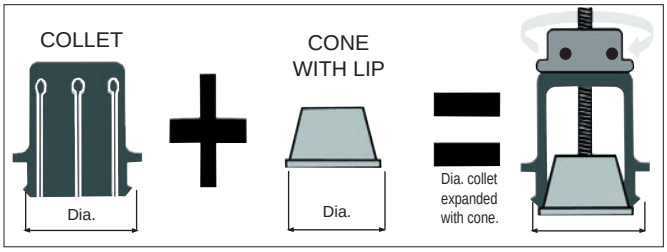
TUG-GUN™ uses a novel approach - pneumatic power - to quickly extract valve seat inserts within seconds, without damage. You begin by putting the proper collet and cone for the application onto the gun's threaded rod to hold everything in place. Once the correct spacers are selected, you place them between the collet's upper lip and the top of the valve seat. Next, position the TUG-GUN™ onto the seat, making sure that the lower collet lip engages the bottom of the seat. Finally, snug up the expansion nut, activate the gun and watch as the seat insert pulls effortlessly away from the counterbore.

NEWEN® makes collets to handle every head imaginable - from the smallest aluminum job to the gargantuan cast-iron diesels from Caterpillar, Detroit Diesel and Cummins. Optional attachments are also available to extract press-in studs...."

September 1994
Motor Magazine

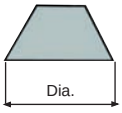
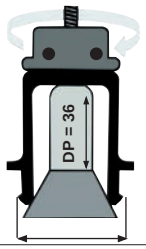
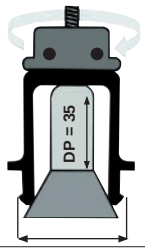
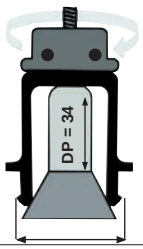
Email: contact@newen.com - **Website:** www.newen.com

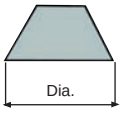
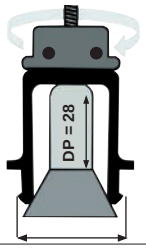
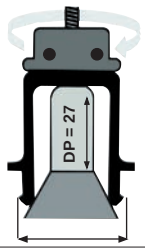
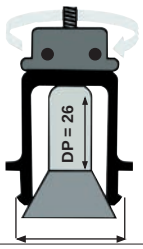




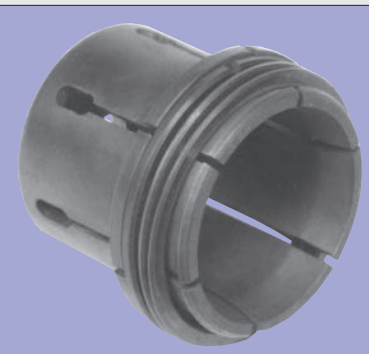
TUG301 Dia. 23mm **(.906")**	**TUG419** Dia. 19mm **(.748")**	Dia. 24mm (.945")
TUG301 Dia. 23mm **(.906")**	**TUG420** Dia. 20mm **(.787")**	Dia. 25mm (.984")
TUG302 Dia. 25mm **(.984")**	**TUG421** Dia. 21mm **(.827")**	Dia. 26mm (1.024")
TUG302 Dia. 25mm **(.984")**	**TUG422** Dia. 22mm **(.866")**	Dia. 27mm (1.063")
TUG303 Dia. 27mm **(1.063")**	**TUG423** Dia. 23mm **(.906")**	Dia. 28mm (1.102")
TUG303 Dia. 27mm **(1.063")**	**TUG424** Dia. 24mm **(.945")**	Dia. 29mm (1.142")
TUG304 Dia. 29mm **(1.142")**	**TUG425** Dia. 25mm **(.984")**	Dia. 30mm (1.181")
TUG304 Dia. 29mm **(1.142")**	**TUG426** Dia. 26mm **(1.024")**	Dia. 31mm (1.220")
TUG305 Dia. 31mm **(1.220")**	**TUG427** Dia. 27mm **(1.063")**	Dia. 32mm (1.260")
TUG305 Dia. 31mm **(1.220")**	**TUG428** Dia. 28mm **(1.102")**	Dia. 33mm (1.299")
TUG306 Dia. 33mm **(1.299")**	**TUG429** Dia. 29mm **(1.142")**	Dia. 34mm (1.339")
TUG306 Dia. 33mm **(1.299")**	**TUG430** Dia. 30mm **(1.181")**	Dia. 35mm (1.378")
TUG306 Dia. 33mm **(1.299")**	**TUG431** Dia. 31mm **(1.220")**	Dia. 36mm (1.417")
TUG307 Dia. 35mm **(1.378")**		
TUG306 Dia. 33mm **(1.299")**	**TUG432** Dia. 32mm **(1.260")**	Dia. 37mm (1.457")
TUG307 Dia. 35mm **(1.378")**		
TUG307 Dia. 35mm **(1.378")**	**TUG433** Dia. 33mm **(1.299")**	Dia. 38mm (1.496")
TUG308 Dia. 37mm **(1.457")**		
TUG307 Dia. 35mm **(1.378")**	**TUG434** Dia. 34mm **(1.399")**	Dia. 39mm (1.535")
TUG308 Dia. 37mm **(1.457")**		
TUG308 Dia. 37mm **(1.457")**	**TUG435** Dia. 35mm **(1.378")**	Dia. 40mm (1.575")
TUG309 Dia. 39mm **(1.535")**		
TUG308 Dia. 37mm **(1.457")**	**TUG436** Dia. 36mm **(1.417")**	Dia. 41mm (1.614")
TUG309 Dia. 39mm **(1.535")**		
TUG309 Dia. 39mm **(1.535")**	**TUG437** Dia. 37mm **(1.457")**	Dia. 42mm (1.654")
TUG310 Dia. 41mm **(1.614")**		
TUG309 Dia. 39mm **(1.535")**	**TUG438** Dia. 38mm **(1.496")**	Dia. 43mm (1.693")
TUG310 Dia. 41mm **(1.614")**		
TUG310 Dia. 41mm **(1.614")**	**TUG439** Dia. 39mm **(1.535")**	Dia. 44mm (1.732")

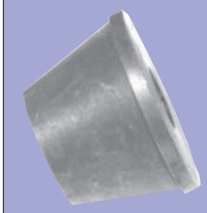
TUG311 Dia. 43mm **(1.693")**	**TUG439** Dia.39mm (1.535")	Dia. 44mm (1.732")
TUG310 Dia. 41mm **(1.614")**	**TUG440** Dia. 40mm **(1.575")**	Dia. 45mm (1.772")
TUG311 Dia. 43mm **(1.693")**		
TUG311 Dia. 43mm **(1.693")**	**TUG441** Dia. 41mm **(1.614")**	Dia. 46mm (1.811")
TUG312 Dia. 45mm **(1.772")**		
TUG311 Dia. 43mm **(1.693")**	**TUG442** Dia. 42mm **(1.654")**	Dia. 47mm (1.850")
TUG312 Dia. 45mm **(1.772")**		
TUG312 Dia. 45mm **(1.772")**	**TUG443** Dia. 43mm **(1.693")**	Dia. 48mm (1.890")
TUG313 Dia. 47mm **(1.850")**		
TUG312 Dia. 45mm **(1.772")**	**TUG444** Dia. 44mm **(1.732")**	Dia. 49mm (1.929")
TUG313 Dia. 47mm **(1.850")**		
TUG313 Dia. 47mm **(1.850")**	**TUG445** Dia. 45mm **(1.772")**	Dia. 50mm (1.968")
TUG314 Dia. 49mm **(1.929")**		
TUG313 Dia. 47mm **(1.850")**	**TUG446** Dia. 46mm **(1.811")**	Dia. 51mm (2.008")
TUG314 Dia. 49mm **(1.929")**		
TUG314 Dia. 49mm **(1.929")**	**TUG447** Dia. 47mm **(1.850")**	Dia. 52mm (2.047")
TUG315 Dia. 51mm **(2.008")**		
TUG314 Dia. 49mm **(1.929")**	**TUG448** Dia. 48mm **(1.890")**	Dia. 53mm (2.087")
TUG315 Dia. 51mm **(2.008")**		
TUG315 Dia. 51mm **(2.008")**	**TUG449** Dia. 49mm **(1.929")**	Dia. 54mm (2.126")
TUG316 Dia. 53mm **(2.087")**		
TUG315 Dia. 51mm **(2.008")**	**TUG450** Dia. 50mm **(1.968")**	Dia. 55mm (2.165")
TUG316 Dia. 53mm **(2.087")**		
TUG316 Dia. 53mm **(2.087")**	**TUG451** Dia. 51mm **(2.008")**	Dia. 56mm (2.205")
TUG317 Dia. 55mm **(2.165")**		
TUG316 Dia. 53mm **(2.087")**	**TUG452** Dia. 52mm **(2.047")**	Dia. 57mm (2.244")
TUG317 Dia. 55mm **(2.165")**		
TUG317 Dia. 55mm **(2.165")**	**TUG453** Dia. 53mm **(2.087")**	Dia. 58mm (2.283")
TUG317 Dia. 55mm **(2.165")**	**TUG454** Dia. 54mm **(2.126")**	Dia. 59mm (2.323")

COLLET	CONE WITHOUT LIP			
		 Dia. collet expanded with cone and Distance Piece **TUGDP36**	 Dia. collet expanded with cone and Distance Piece **TUGDP35**	 Dia. collet expanded with cone and Distance Piece **TUGDP34**
TUG302 Dia. 25mm (.984")	**TUG519** Dia. 19mm (.748")	Dia. 26mm (1.024")	Dia. 26.5mm (1.043")	Dia. 27mm (1.063")
TUG302 Dia. 25mm (.984")	**TUG520** Dia. 20mm (.787")	Dia. 27mm (1.063")	Dia. 27.5mm (1.083")	
TUG303 Dia. 27mm (1.063")	**TUG521** Dia. 21mm (.827")	Dia. 28mm (1.102")	Dia. 28.5mm (1.122")	Dia. 29mm (1.142")
TUG303 Dia. 27mm (1.063")	**TUG522** Dia. 22mm (.866")	Dia. 29mm (1.142")	Dia. 29.5mm (1.161")	Dia. 30mm (1.181")

COLLET	CONE WITHOUT LIP			
		 Dia. collet expanded with cone and Distance Piece **TUGDP28**	 Dia. collet expanded with cone and Distance Piece **TUGDP27**	 Dia. collet expanded with cone and Distance Piece **TUGDP26**
TUG304 Dia. 29mm (1.142")	**TUG523** Dia. 23mm (.906")	Dia. 30mm (1.181")	Dia. 30.5mm (1.201")	Dia. 31mm (1.220")
TUG304 Dia. 29mm (1.142")	**TUG524** Dia. 24mm (.945")	Dia. 31mm (1.220")	Dia. 31.5mm (1.240")	Dia. 32mm (1.260")
TUG305 Dia. 31mm (1.220")	**TUG525** Dia. 25mm (.984")	Dia. 32mm (1.260")	Dia. 32.5mm (1.280")	Dia. 33mm (1.299")
TUG305 Dia. 31mm (1.220")	**TUG526** Dia. 26mm (1.024")	Dia. 33mm (1.299")	Dia. 33.5mm (1.319")	Dia. 34mm (1.339")
TUG306 Dia. 33mm (1.299")	**TUG527** Dia. 27mm (1.063")	Dia. 34mm (1.339")	Dia. 34.5mm (1.358")	Dia. 35mm (1.378")
TUG306 Dia. 33mm (1.299")	**TUG528** Dia. 28mm (1.102")	Dia. 35mm (1.378")	Dia. 35.5mm (1.398")	Dia. 36mm (1.417")
TUG307 Dia. 35mm (1.378")	**TUG529** Dia. 29mm (1.142")	Dia. 36mm (1.417")	Dia. 36.5mm (1.437")	Dia. 37mm (1.457")
TUG307 Dia. 35mm (1.378")	**TUG530** Dia. 30mm (1.181")	Dia. 37mm (1.457")	Dia. 37.5mm (1.476")	Dia. 38mm (1.496")
TUG308 Dia. 37mm (1.457")	**TUG531** Dia. 31mm (1.220")	Dia. 38mm (1.496")	Dia. 38.5mm (1.516")	Dia. 39mm (1.535")
TUG308 Dia. 37mm (1.457")	**TUG532** Dia. 32mm (1.260")	Dia. 39mm (1.535")	Dia. 39.5mm (1.555")	Dia. 40mm (1.575")
TUG309 Dia. 39mm (1.535")	**TUG533** Dia. 33mm (1.299")	Dia. 40mm (1.575")	Dia. 40.5mm (1.594")	Dia. 41mm (1.614")
TUG309 Dia. 39mm (1.535")	**TUG534** Dia. 34mm (1.399")	Dia. 41mm (1.614")	Dia. 41.5mm (1.634")	Dia. 42mm (1.654")
TUG310 Dia. 41mm (1.614")	**TUG535** Dia. 35mm (1.378")	Dia. 42mm (1.654")	Dia. 42.5mm (1.673")	Dia. 43mm (1.693")
TUG310 Dia. 41mm (1.614")	**TUG536** Dia. 36mm (1.417")	Dia. 43mm (1.693")	Dia. 43.5mm (1.713")	Dia. 44mm (1.732")
TUG311 Dia. 43mm (1.693")	**TUG537** Dia. 37mm (1.457")	Dia. 44mm (1.732")	Dia. 44.5mm (1.752")	Dia. 45mm (1.772")
TUG311 Dia. 43mm (1.693")	**TUG538** Dia. 38mm (1.496")	Dia. 45mm (1.772")	Dia. 45.5mm (1.791")	Dia. 46mm (1.811")
TUG312 Dia. 45mm (1.772")	**TUG539** Dia. 39mm (1.535")	Dia. 46mm (1.811")	Dia. 46.5mm (1.831")	Dia. 47mm (1.850")
TUG312 Dia. 45mm (1.772")	**TUG540** Dia. 40mm (1.575")	Dia. 47mm (1.850")	Dia. 47.5mm (1.870")	Dia. 48mm (1.890")
TUG313 Dia. 47mm (1.850")	**TUG541** Dia. 41mm (1.614")	Dia. 48mm (1.890")	Dia. 48.5mm (1.909")	Dia. 49mm (1.929")
TUG313 Dia. 47mm (1.850")	**TUG542** Dia. 42mm (1.654")	Dia. 49mm (1.929")	Dia. 49.5mm (1.949")	Dia. 50mm (1.968")
TUG314 Dia. 49mm (1.929")	**TUG543** Dia. 43mm (1.693")	Dia. 50mm (1.968")	Dia. 50.5mm (1.988")	Dia. 51mm (2.008")
TUG314 Dia. 49mm (1.929")	**TUG544** Dia. 44mm (1.732")	Dia. 51mm (2.008")	Dia. 51.5mm (2.028")	Dia. 52mm (2.047")
TUG315 Dia. 51mm (2.008")	**TUG545** Dia. 45mm (1.772")	Dia. 52mm (2.047")	Dia. 52.5mm (2.067")	Dia. 53mm (2.087")
TUG315 Dia. 51mm (2.008")	**TUG546** Dia. 46mm (1.811")	Dia. 53mm (2.087")	Dia. 53.5mm (2.106")	Dia. 54mm (2.126")
TUG316 Dia. 53mm (2.087")	**TUG547** Dia. 47mm (1.850")	Dia. 54mm (2.126")	Dia. 54.5mm (2.146")	Dia. 55mm (2.165")
TUG316 Dia. 53mm (2.087")	**TUG548** Dia. 48mm (1.890")	Dia. 55mm (2.165")	Dia. 55.5mm (2.185")	Dia. 56mm (2.205")
TUG317 Dia. 55mm (2.165")	**TUG549** Dia. 49mm (1.929")	Dia. 56mm (2.205")	Dia. 56.5mm (2.224")	Dia. 57mm (2.244")
TUG317 Dia. 55mm (2.165")	**TUG550** Dia. 50mm (1.968")	Dia. 57mm (2.244")	Dia. 57.5mm (2.264")	Dia. 58mm (2.283")
TUG317 Dia. 55mm (2.165")	**TUG551** Dia. 51mm (2.008")	Dia. 58mm (2.283")	Dia. 58.5mm (2.303")	Dia. 59mm (2.323")

VISA MasterCard American Express Cards





COLLET, SPACER and CONE SETS ***(FOR GENERAL AND SELECTED CATERPILLAR APPLICATIONS).***

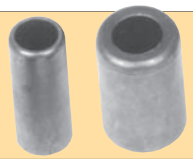
COLLET, SPACER & CONE SETS FOR GENERAL APPLICATIONS:

- **TUG301:** Collet Dia. 23-25mm **(.905”-.984”)**, 2 cones & 4 spacers.
- **TUG302:** Collet Dia. 25-27mm **(.984”-1.063”)**, 2 cones & 4 spacers.
- **TUG303:** Collet Dia. 27-29mm **(1.063”-1.142”)**, 2 cones & 4 spacers.
- **TUG304:** Collet Dia. 29-31mm **(1.142”-1.220”)**, 2 cones & 4 spacers.
- **TUG305:** Collet Dia. 31-33mm **(1.220”-1.299”)**, 2 cones & 4 spacers.
- **TUG306:** Collet Dia. 33.5-36.5mm **(1.319”-1.437”)**, 4 cones & 4 spacers.
- **TUG307:** Collet Dia. 35.5-38.5mm **(1.398”-1.516”)**, 4 cones & 4 spacers.
- **TUG308:** Collet Dia. 37.5-40.5mm **(1.476”-1.594”)**, 4 cones & 4 spacers.
- **TUG309:** Collet Dia. 39.5-42.5mm **(1.555”-1.673”)**, 4 cones & 4 spacers.
- **TUG310:** Collet Dia. 41.5-44.5mm **(1.634”-1.752”)**, 4 cones & 4 spacers.
- **TUG311:** Collet Dia. 43.5-46.5mm **(1.713”-1.831”)**, 4 cones & 4 spacers.
- **TUG312:** Collet Dia. 45.5-48.5mm **(1.791”-1.909”)**, 4 cones & 4 spacers.
- **TUG313:** Collet Dia. 47.5-50.5mm **(1.870”-1.988”)**, 4 cones & 4 spacers.
- **TUG314:** Collet Dia. 49.5-52.5mm **(1.949”-2.067”)**, 4 cones & 4 spacers.
- **TUG315:** Collet Dia. 51.5-54.5mm **(2.028”-2.146”)**, 4 cones & 4 spacers.
- **TUG316:** Collet Dia. 53.5-56.5mm **(2.106”-2.224”)**, 4 cones & 4 spacers.
- **TUG317:** Collet Dia. 55.5-58.5mm **(2.185”-2.303”)**, 4 cones & 4 spacers.

COLLET & CONE SETS FOR SELECTED CATERPILLAR APPLICATIONS:

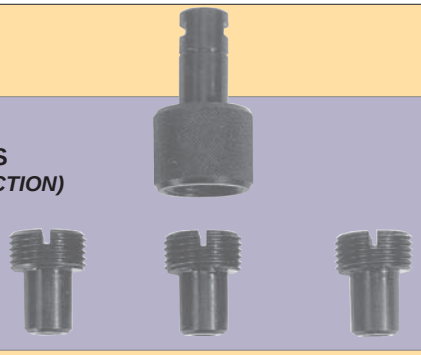
- **TUG-CAT1:** 1 collet, 1 cone, **seat ID 2.281”**, Ht. 0.625”, CAT353 & like, IN.
- **TUG-CAT2:** 1 collet, 1 cone, **seat ID 2.125”**, Ht. 0.625”, CAT353 & like, EX.

DISTANCE PIECE
(USED WITH LIPLESS CONES)



- **TUG-DP20:** Distance piece, 20mm **(.787”)**
- **TUG-DP21:** Distance piece, 21mm **(.827”)**
- **TUG-DP22:** Distance piece, 22mm **(.866”)**
- **TUG-DP23:** Distance piece, 23mm **(.905”)**
- **TUG-DP24:** Distance piece, 24mm **(.944”)**
- **TUG-DP25:** Distance piece, 25mm **(.984”)**
- **TUG-DP26:** Distance piece, 26mm **(1.023”)**
- **TUG-DP27:** Distance piece, 27mm **(1.063”)**
- **TUG-DP28:** Distance piece, 28mm **(1.102”)**
- **TUG-DP34:** Distance piece, 34mm **(1.338”)**
- **TUG-DP35:** Distance piece, 35mm **(1.377”)**
- **TUG-DP36:** Distance piece, 36mm **(1.417”)**
- **TUG-DP29.3:** Distance piece, 29.3mm **(1.153”)**-CAT
- **TUG-DP30.3:** Distance piece, 30.3mm **(1.192”)**-CAT
- **TUG-DP31.3:** Distance piece, 31.3mm **(1.232”)**-CAT

TUG-GUN™ ACCESSORIES
(STUDS EXTRACTION)



- **TUG-CK:** Stud puller connection set.

- **TUG-S-7/16x20:** Stud puller, **7/16” x 20**
- **TUG-S-3/8x24:** Stud puller, **3/8” x 24**
- **TUG-S-5/16x 24:** Stud puller, **5/16” x 24**

LIPLESS CONE
(FOR VALVE SEATS WITH CASTING INTERFERENCE AND FREEZE PLUGS).

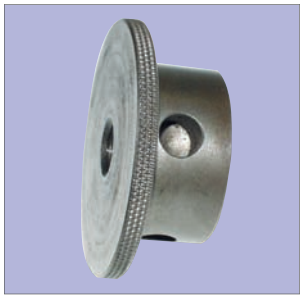
- **TUG519**: Lipless cone, dia. 19mm **(.748”)**
- **TUG520**: Lipless cone, dia. 20mm **(.787”)**
- **TUG521**: Lipless cone, dia. 21mm **(.827”)**
- **TUG522**: Lipless cone, dia. 22mm **(.866”)**
- **TUG523**: Lipless cone, dia. 23mm **(.906”)**
- **TUG524**: Lipless cone, dia. 24mm **(.945”)**
- **TUG525**: Lipless cone, dia. 25mm **(.984”)**
- **TUG526**: Lipless cone, dia. 26mm **(1.024”)**
- **TUG527**: Lipless cone, dia. 27mm **(1.063”)**
- **TUG528**: Lipless cone, dia. 28mm **(1.102”)**
- **TUG529**: Lipless cone, dia. 29mm **(1.142”)**
- **TUG530**: Lipless cone, dia. 30mm **(1.181”)**
- **TUG531**: Lipless cone, dia. 31mm **(1.220”)**
- **TUG532**: Lipless cone, dia. 32mm **(1.260”)**
- **TUG533**: Lipless cone, dia. 33mm **(1.299”)**
- **TUG534**: Lipless cone, dia. 34mm **(1.399”)**
- **TUG535**: Lipless cone, dia. 35mm **(1.378”)**
- **TUG536**: Lipless cone, dia. 36mm **(1.417”)**
- **TUG537**: Lipless cone, dia. 37mm **(1.457”)**
- **TUG538**: Lipless cone, dia. 38mm **(1.496”)**
- **TUG539**: Lipless cone, dia. 39mm **(1.535”)**
- **TUG540**: Lipless cone, dia. 40mm **(1.575”)**
- **TUG541**: Lipless cone, dia. 41mm **(1.614”)**
- **TUG542**: Lipless cone, dia. 42mm **(1.654”)**
- **TUG543**: Lipless cone, dia. 43mm **(1.693”)**
- **TUG544**: Lipless cone, dia. 44mm **(1.732”)**
- **TUG545**: Lipless cone, dia. 45mm **(1.772”)**
- **TUG546**: Lipless cone, dia. 46mm **(1.811”)**
- **TUG547**: Lipless cone, dia. 47mm **(1.850”)**
- **TUG548**: Lipless cone, dia. 48mm **(1.890”)**
- **TUG549**: Lipless cone, dia. 49mm **(1.929”)**
- **TUG550**: Lipless cone, dia. 50mm **(1.968”)**
- **TUG551**: Lipless cone, dia. 51mm **(2.008”)**

CONE WITH LIP
(FOR GENERAL APPLICATIONS).

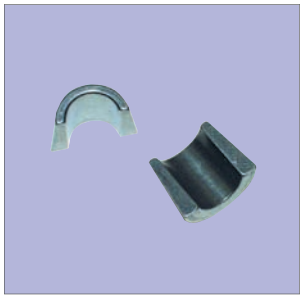
- **TUG419**: Cone with lip, dia. 19mm **(.748")**
- **TUG420**: Cone with lip, dia. 20mm **(.787")**
- **TUG421**: Cone with lip, dia. 21mm **(.827")**
- **TUG422**: Cone with lip, dia. 22mm **(.866")**
- **TUG423**: Cone with lip, dia. 23mm **(.906")**
- **TUG424**: Cone with lip, dia. 24mm **(.945")**
- **TUG425**: Cone with lip, dia. 25mm **(.984")**
- **TUG426**: Cone with lip, dia. 26mm **(1.024")**
- **TUG427**: Cone with lip, dia. 27mm **(1.063")**
- **TUG428**: Cone with lip, dia. 28mm **(1.102")**
- **TUG429**: Cone with lip, dia. 29mm **(1.142")**
- **TUG430**: Cone with lip, dia. 30mm **(1.181")**
- **TUG431**: Cone with lip, dia. 31mm **(1.220")**
- **TUG432**: Cone with lip, dia. 32mm **(1.260")**
- **TUG433**: Cone with lip, dia. 33mm **(1.299")**
- **TUG434**: Cone with lip, dia. 34mm **(1.399")**
- **TUG435**: Cone with lip, dia. 35mm **(1.378")**
- **TUG436**: Cone with lip, dia. 36mm **(1.417")**
- **TUG437**: Cone with lip, dia. 37mm **(1.457")**
- **TUG438**: Cone with lip, dia. 38mm **(1.496")**
- **TUG439**: Cone with lip, dia. 39mm **(1.535")**
- **TUG440**: Cone with lip, dia. 40mm **(1.575")**
- **TUG441**: Cone with lip, dia. 41mm **(1.614")**
- **TUG442**: Cone with lip, dia. 42mm **(1.654")**
- **TUG443**: Cone with lip, dia. 43mm **(1.693")**
- **TUG444**: Cone with lip, dia. 44mm **(1.732")**
- **TUG445**: Cone with lip, dia. 45mm **(1.772")**
- **TUG446**: Cone with lip, dia. 46mm **(1.811")**
- **TUG447**: Cone with lip, dia. 47mm **(1.850")**
- **TUG448**: Cone with lip, dia. 48mm **(1.890")**
- **TUG449**: Cone with lip, dia. 49mm **(1.929")**
- **TUG450**: Cone with lip, dia. 50mm **(1.968")**
- **TUG451**: Cone with lip, dia. 51mm **(2.008")**
- **TUG452**: Cone with lip, dia. 52mm **(2.047")**
- **TUG453**: Cone with lip, dia. 53mm **(2.087")**
- **TUG454**: Cone with lip, dia. 54mm **(2.126")**
- **TUG455**: Cone with lip, dia. 55mm **(2.165")**

TUG600
Replacement threaded shaft for TUG-GUN™.

TUG603
Replacement wrench for TUG602, expansion nut.



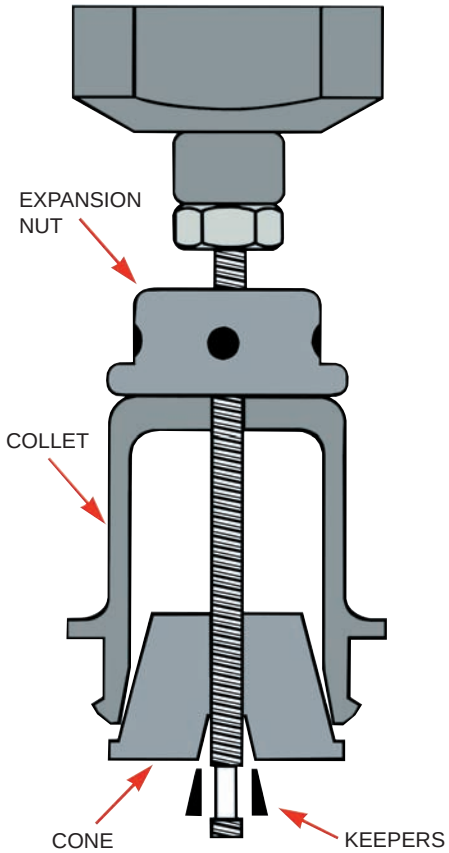
TUG602
Replacement expansion nut for TUG-GUN™.



TUG601
Replacement keepers (set of 2).

TUG604
Replacement Lock-nut.

TUG605
Replacement hose fitting.



Email: contact@newen.com - **Website:** www.newen.com

Why the PCC™ Tool?

When resurfacing a diesel engine cylinder head with indirect injection, pre-combustion chambers counterbores also have to be machined at the right depth in order to:

1. Have the pre-combustion chambers sit slightly higher than the gasket plan of the cylinder head, to ensure that the said precombustion chambers are properly maintained in place by the cylinder head gasket. Most O.E.M.s recommend that the pre-combustion chambers jut out approximately 2 to 3/100mm **(0.001")** above the cylinder head gasket plan.

2. Give a perfectly stable seat to the pre-combustion chambers, knowing that, in the long run, the pre-combustion chamber housings lose their shape and do not hold the pre-combustion chambers properly.

3. Allow, under any circumstances, the replacement of a pre-combustion chamber while respecting the recommended depth.

It is not advisable to surface a cylinder head with the pre-combustion chambers left installed, for the ollowing reasons:

• The pre-combustion chambers will never be maintained properly since they will be flush with the cylinder head gasket plan and, consequently, will not receive any pressure from the gasket.

• The surfacing of the aluminum of a cylinder head and that of the alloy of the pre-combustion chambers require different cutters and different speeds. Moreover, it is extremely difficult to get a perfectly plan surface when grinding two different materials in one single operation.

• A pre-combustion chamber can come loose while the cylinder head is being resurfaced and can cause important damages to both cylinder head and the machine itself.

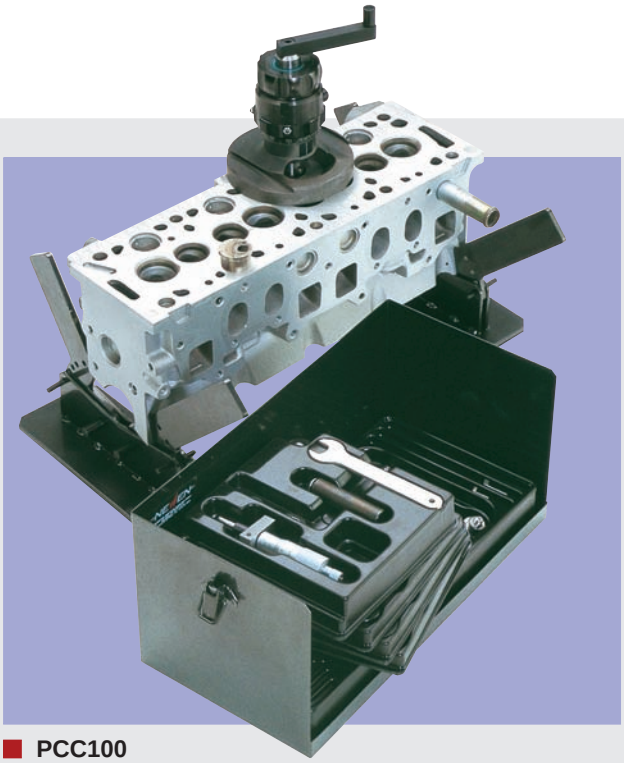
• A cylinder head surfaced with its pre-combustion chambers left installed can no longer receive original size replacement chambers.

• Surfacing pre-combustion chambers weakens these and multiplies the risk of rupture.

Among other things, it is important to extract the pre-combustion chambers to verify their press-fit in the cylinder head. In the event the pre-combustion chambers would not have the proper press-fit, it is recommended to widen their housings and to install oversize pre-combustion chambers instead.

■ PCC100

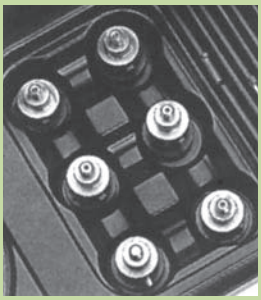
A counterboring tool to:
• Machine the housing of the precombustion chambers in diesel cylinder heads with indirect injection.
• Machine the housing width of pre-combustion chambers to install oversize pre-combustion chambers.



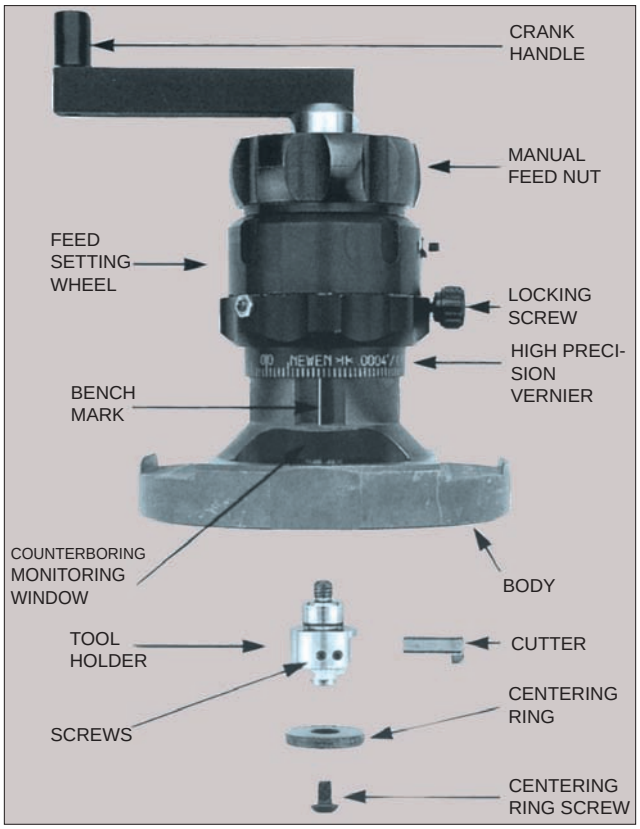
■ PCC100

Universal counterboring tool includes:
•1 Metal storage box with organizers
•1 PCC301, precision micrometer with fixture
•1 Box wrench
•4 Allen wrenches
•1 PCC™ tool
•1 Crank handle
•1 Lathe adaptor
•1 PCC304, Tool holder
•1 PCC3031, #1 cutter, capacity: 25-30mm **(.984-1.181")**
•1 PCC3032, #2 cutter, capacity: 30-40mm **(1.181-1.575")**
•1 PCC3033, #3 cutter, capacity: 40-50mm **(1.575-1.968")**
•24 centering rings:
24.80mm **(.9764")**, 25.35mm **(.9980")**,
25.45mm **(1.0020")**, 25.90mm **(1.0197")**,
26.70mm **(1.0512")**, 26.80mm **(1.0551")**,
27.20mm **(1.0709")**, 27.40mm **(1.0787")**,
27.60mm **(1.0866")**, 28.15mm **(1.1083")**,
28.80mm **(1.1339")**, 28.90mm **(1.1378")**,
29.65mm **(1.1673")**, 29.75mm **(1.1713")**,
30.10mm **(1.1850")**, 30.30mm **(1.1929")**,
30.40mm **(1.1969")**, 32.90mm **(1.2953")**,
34.60mm **(1.3622")** - *GM6.2& GM6.5L applications*,
34.65mm **(1.3642")**, 34.75mm **(1.3681")**,
35.90mm **(1.4134")** - *FORD/NAVISTAR 6.9/7.3L applications*,
40.00mm **(1.5748")** - semi finished centering rings, *2 rings included*, to be used with lathe adaptor.

■ The bottom drawer of the PCC100 organizer can store several pre-set tool holders for your most common cylinder heads. Pre-set tool holders are very affordable and reduce set-up time significantly.



•SAVE TIME.
•KEEP JOB QUALITY CONSISTENT OVER TIME.
•MINIMIZE TOOLING WEAR.
•INCREASE PROFITABILITY.

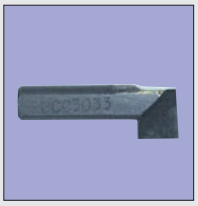


■ **PCC304**
Centering head and cutter holder.

■ **PCC304L**
Centering head and cutter holder (1" longer).

■ **PCC3031**
#1 cutter, capacity: 25mm-30mm **(1"-1.181").**

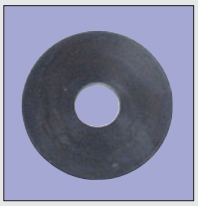
■ **PCC3032**
#2 cutter, capacity: 30mm-40mm **(1.181"-1.574").**



■ **PCC3033**
#3 cutter, capacity: 40mm-50mm **(1.574"-2").**

■ **PCC3034**
#4 cutter for wide housings. Same length as #2 cutter.

■ **PCC305**
Replacement centering ring, dia. 24.8mm-40mm **(1"-1.574")** - ***Order as follow: PCC305-34.6.***



■ **PCC302**
Universal cylinder head holder, adjustable without tools, to position any shape cylinder head with its gasket side horizontal.

■ **PCC110**
Clamping table for PCC100
(NEW)

Email: contact@newen.com - **Website:** www.newen.com

NWN-CTS

NEWEN® high performance carbide tip sharpener (available in 110V or 220V).

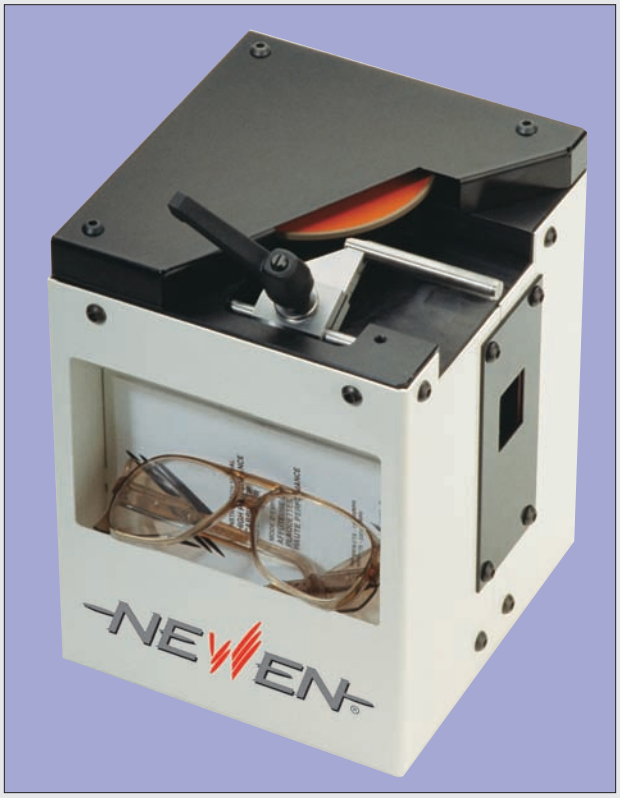
Includes:
- 1 NWN-DWN, high performance diamond wheel.
- 1 NWN-WC, diamond wheel center.
- 1 NWN-GP375, guiding pin, dia. 9.52mm (.375”).
- 1 NWN-CTSLK, 2.5mm L-key.
- 1 NWN-SFTG, pair of safety glasses.
- 1 NWN-CTSMNL, user manual.

With NEWEN® high performance carbide tip sharpener:

- Save time
- Prolong carbide tips and tip holders life
- Minimize tooling wear
- Increase profitability

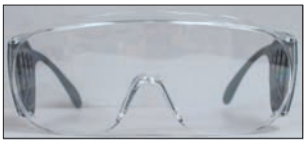
Interchangeable guiding pins for total compatibility with NEWEN® , Kwik-Way, Sunnen, Peterson, Berco, DCM, Winona, Sioux, KO Lee, Tobin Arp and Mira tool holders and ball heads.

GIVE YOUR EMPLOYEES THE TOOLS TO BE MORE PRODUCTIVE!



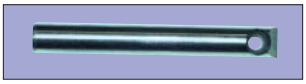
NWN-DWN

Replacement diamond wheel for NEWEN® sharp-



NWN-SFTG

Replacement safety



NWN-GP375

Guiding pin, dia. **.375”** (9.52mm)

NWN-GP385

Guiding pin, dia. **.385”** (9.78mm)

NWN-GP389

Guiding pin, dia. **.389”** (9.88mm)

NWN-GP390

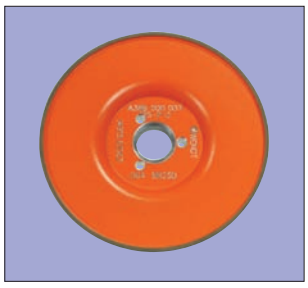
Guiding pin, dia. **.390”** (9.90mm)

NWN-GP437

Guiding pin, dia. **.437”** (11.10mm)

NWN-GPMRA

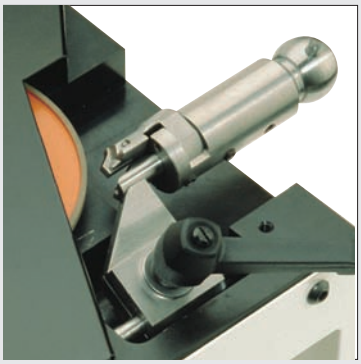
Guiding pin, dia. **.375”** (Mira)



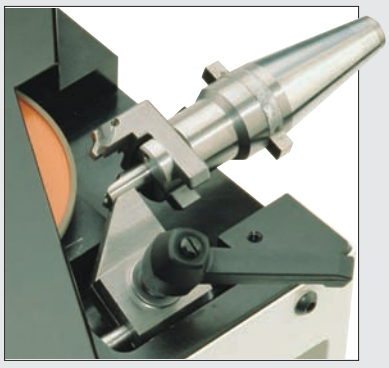
NWN-DWS

Replacement diamond wheel for Serdi sharpener.

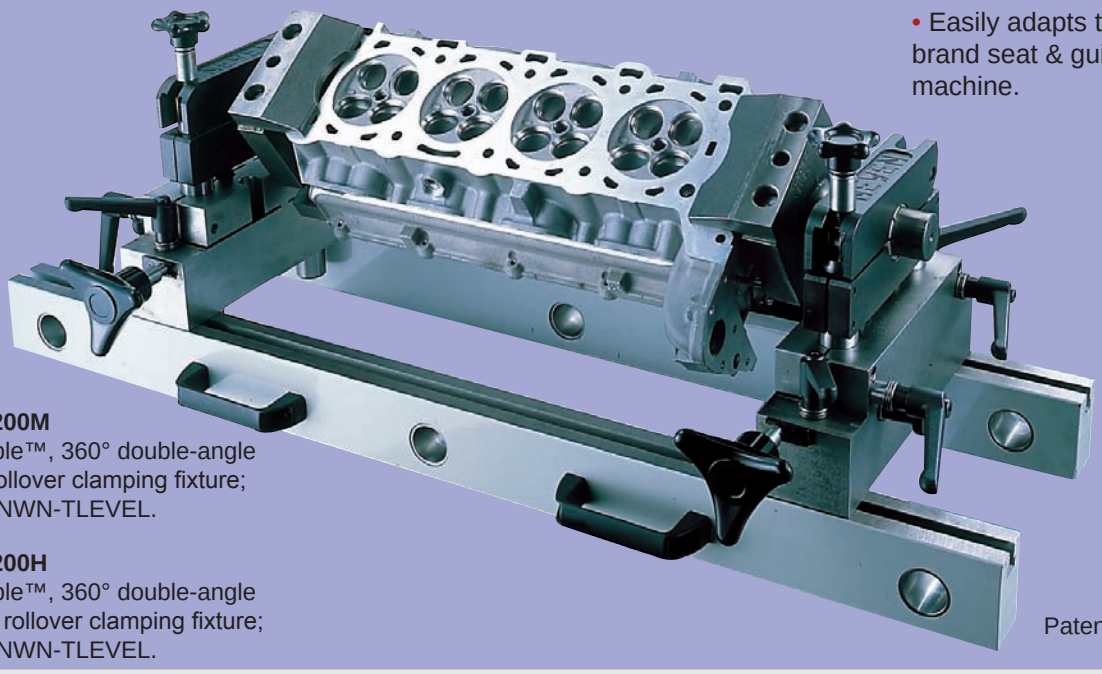
BALL HEADS



TOOL HOLDERS



NEWEN®

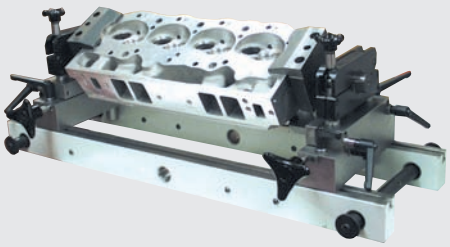


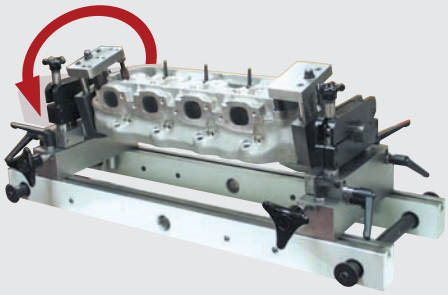
• Easily adapts to any brand seat & guide machine.

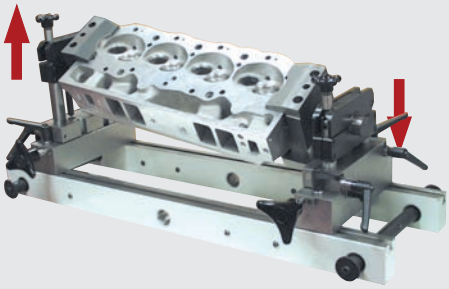
■ **SGC200M**
Palletizable™, 360° double-angle manual rollover clamping fixture; includes NWN-TLEVEL.

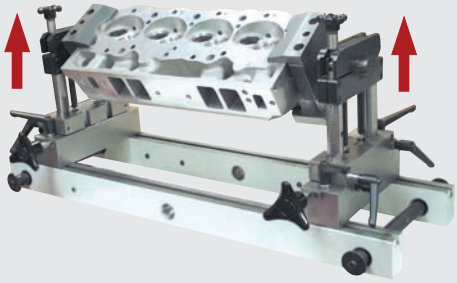
■ **SGC200H**
Palletizable™, 360° double-angle hydraulic rollover clamping fixture; includes NWN-TLEVEL.

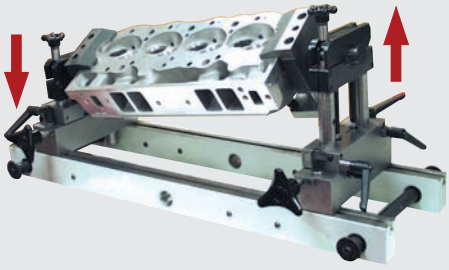
Patented











• NEWEN®'s most universal precision clamping system for automotive and light diesel cylinder heads. Allows quick positioning of most cylinder heads regardless of the valve guide angles. Also allows to simply raise cylinder heads to any desired level and to roll them over for various jobs.

• This patented system is quick, universal, very rigid, user friendly and does not put any stress on cylinder heads owing to its independant jaws and spherical collet clamping system. **A must for any seat & guide machine.**

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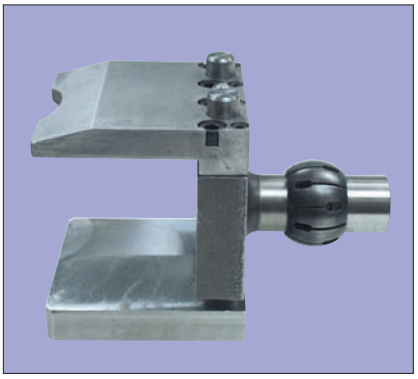
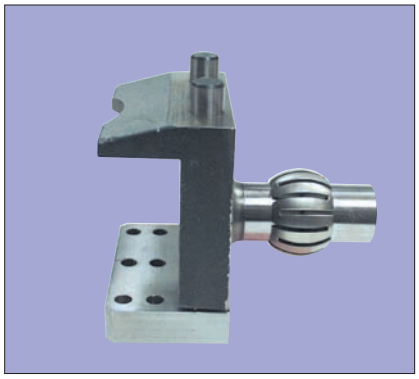


SGC425
Extended reach jaw for SGC200M & SGC200H clamping systems.

SGC425-S
Extended reach jaw for SGC200M-S clamping systems (for SUPER100™ machines).

SGC416
Set of two tall jaw columns & contact plates (8.58") for SGC200M & SGC200H clamping systems.



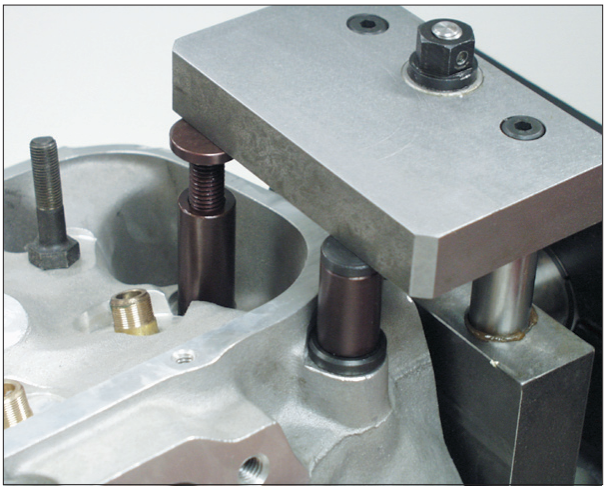
SGC417
Set of 2 additional clamping jaws for SGC200M & SGC200H clamping systems.

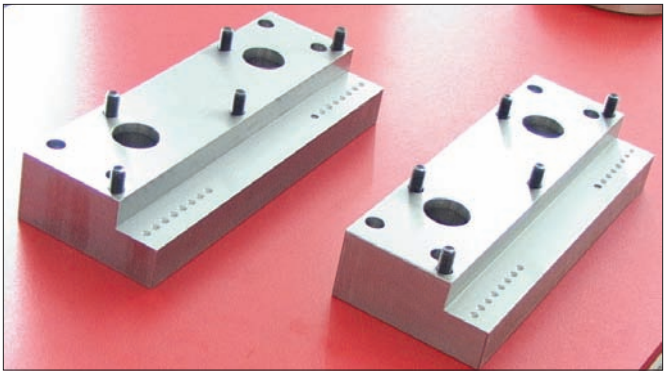
SGC417-S
Set of 2 additional clamping jaws for SGC200M-S clamping systems (for SUPER100™ machines).

NWN-ACB1
Set of 2 adjustable clamping pins for odd shaped cylinder heads.
40-50mm **(1.57"-2.16")**

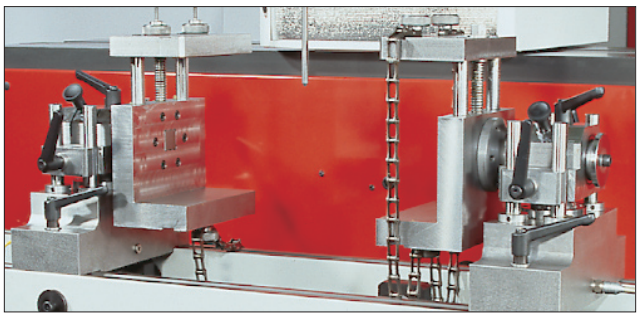
NWN-ACB2
Set of 2 adjustable clamping pins for odd shaped cylinder heads.
55-75mm **(2.16"-2.95")**

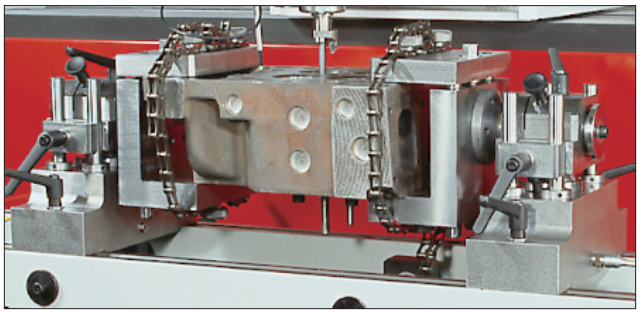
NWN-ACB3
Set of 2 adjustable clamping pins for odd shaped cylinder heads.
75-100mm **(2.95"-3.93")**

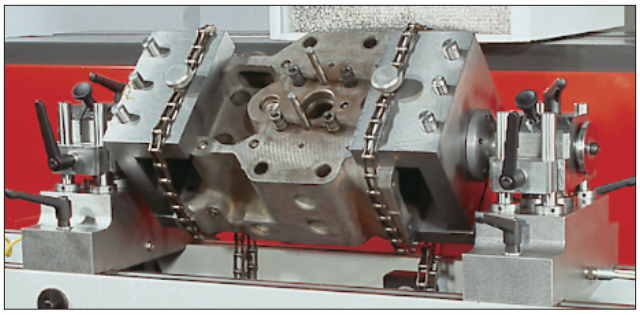




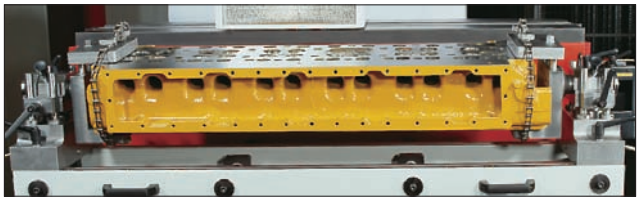
SGC406
Adapter plates for SGC200M (set of 2)
(For Milling Machines, others...)

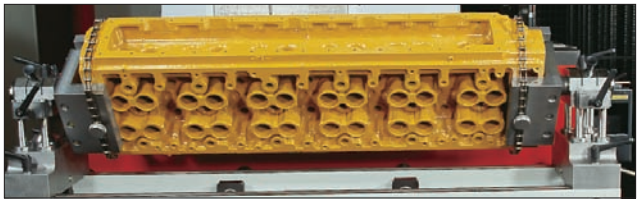


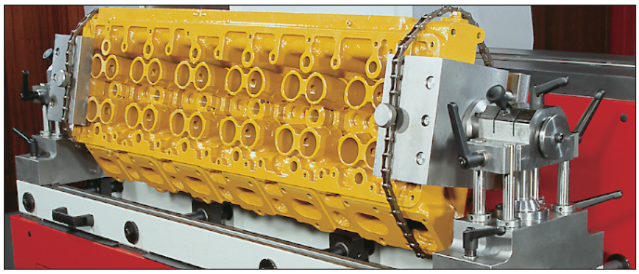


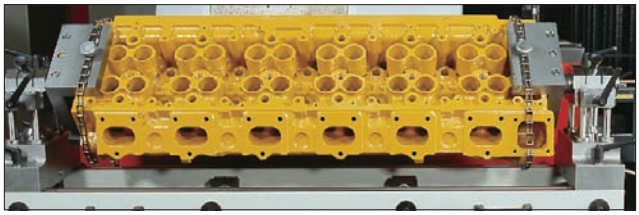


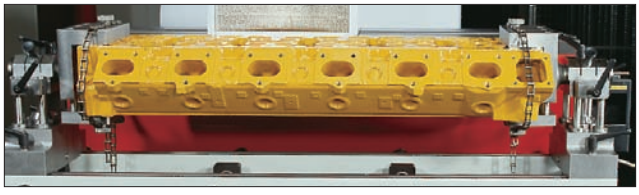
SGC200PHD
Pneumatic assisted 360 degree heavy duty rollover clamping fixture for large diesel cylinder heads - **NON-STOCK**.











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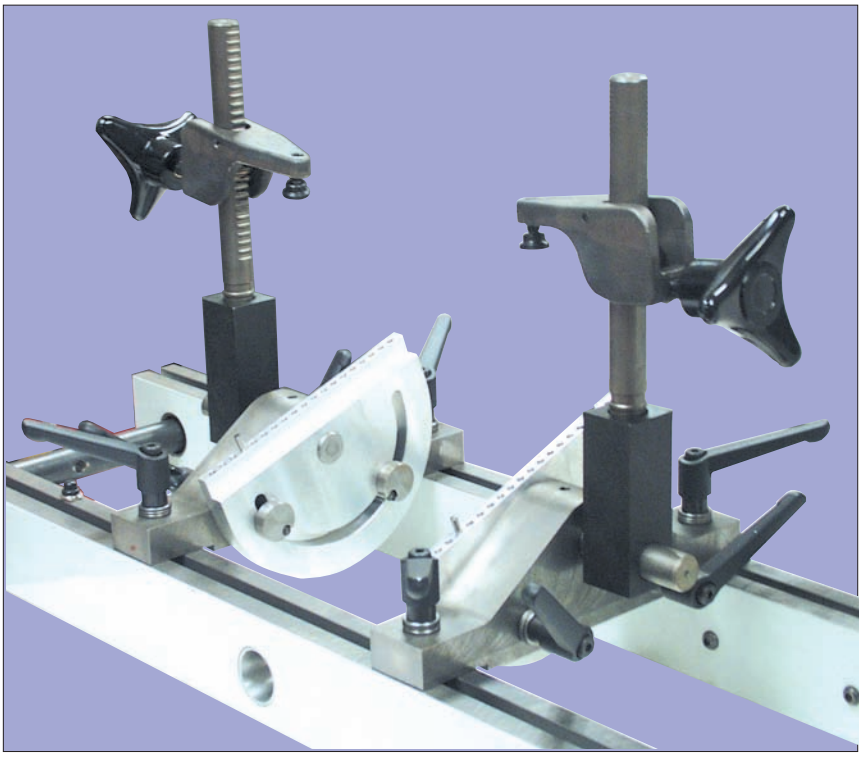
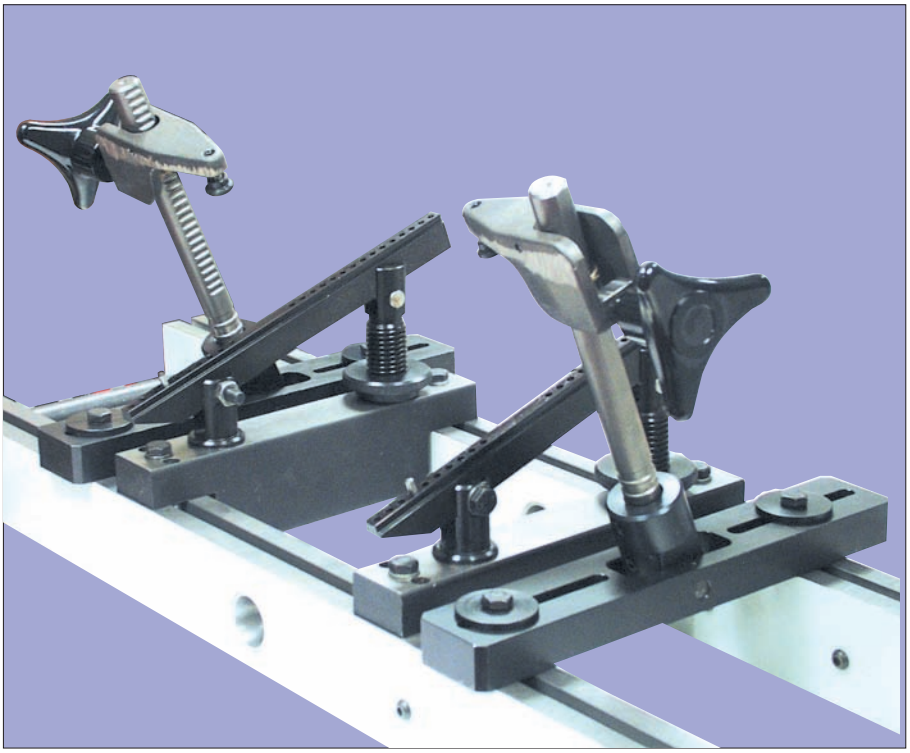
SGC213
Multi-angle swing cylinder head clamping fixture.

SGC213-S
Multi-angle swing cylinder head clamping fixture.
For SUPER100™ machines.



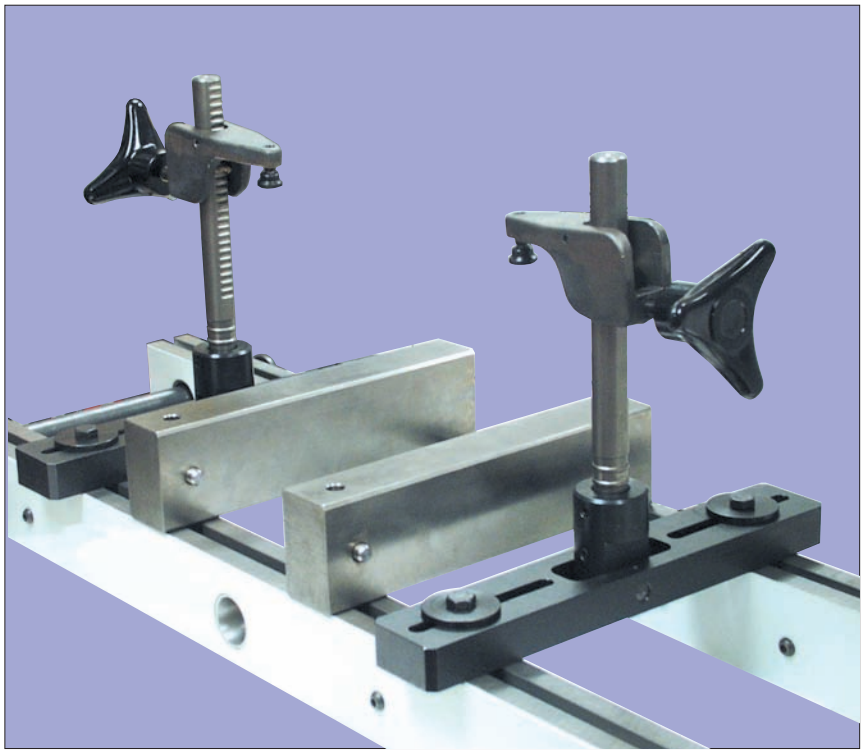


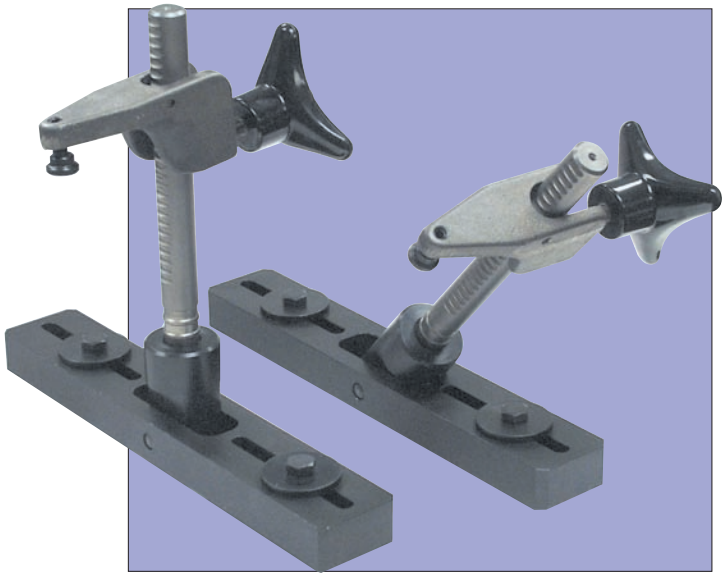
SGC212
Multi-angle cylinder head clamping fixture and set of 2 side clamps (SGC704 & SGC705 included).

SGC704
45mm height parallel for SGC212.

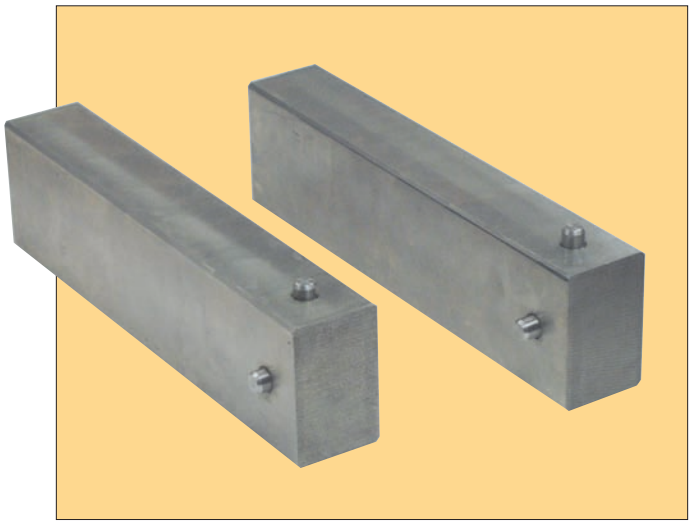
SGC705
60mm height parallel for SGC212.

SGC201
Side clamping fixture with set of 2 riser blocks.





SGC407
Set of 2 side clamps.



SGC403
Set of 2 precision machined cast iron cylinder head positioning blocks (riser blocks).

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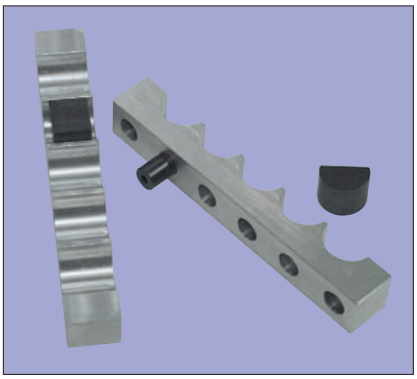
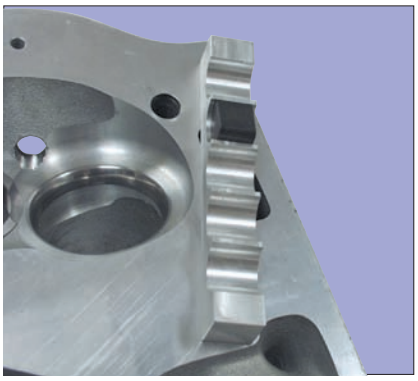
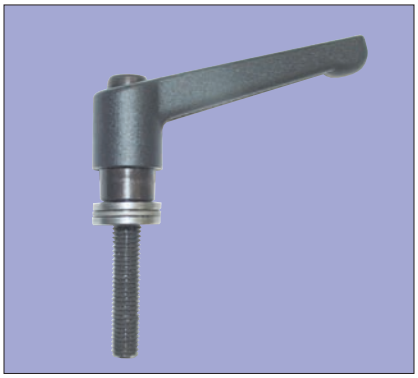


SGC404
Set of 2 aluminum pads for clamping aluminum cylinder heads (commonly used with SGC212).



SGC405
Set of 2 long side clamp bars for SGC201, SGC212 or SGC213.

SGC721
Replacement parallels lock handle for SGC200M & SGC200H. *Use SGC721-S for SGC200M-S.*



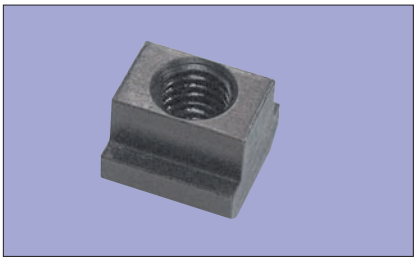
SGC765
Replacement parallels lock handle for SGC213. *Use SGC765-S for SGC213-S.*

SGC766
Replacement side clamp.

SGC710
Replacement pivoting lock handle for SGC200M & SGC200M-S.

SGC769
Replacement side clamp lead screw for SGC699 (SGC200M, SGC200M-S & SGC200H) - comes as a set.

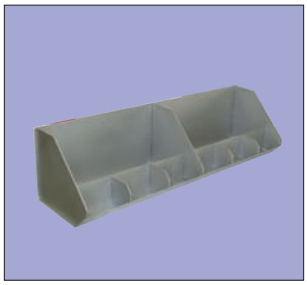
SGC770
Replacement side clamp lead screw for SGC416 (SGC200M & SGC200H) - comes as a set.



SGC616
Replacement T-nut.

SM201
Adjustable height stand.

SM202
Standard stand.

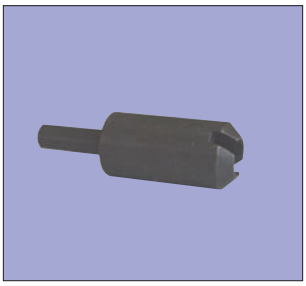


SM206
Stainless steel parts organizer.

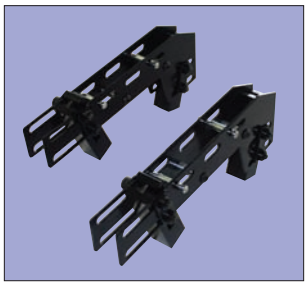
SM815
Cam-bucket bore protector kit.

SM207
Self-locking tweezers.

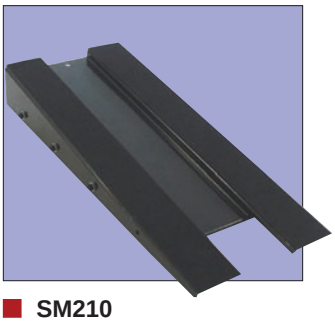
SM208
Telescopic magnet.



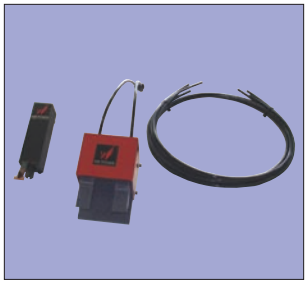
SM241
Drill adapter.



SM220
Universal fastening fixtures.



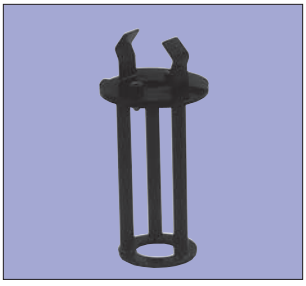
SM210
Compound angle wedge.



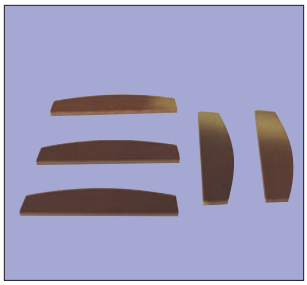
SM251
Pneumatic foot motorization.

SM280
Air drill kit.

SM200
Replacement chuck adapter.



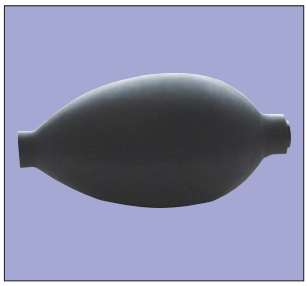
SM318-344
Replacement gripper (18mm, 20mm, 22mm, 24mm, 26mm, 28mm, 32mm, 36mm, 40mm, 44mm).



SM351
Replacement vanes (set of 5) for pneumatic motor).

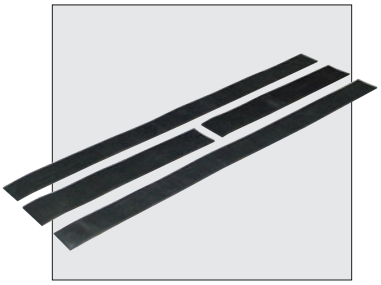
SM370
Replacement bladder.

SM372
Replacement in-line valve.



SM371
Replacement hand pump.

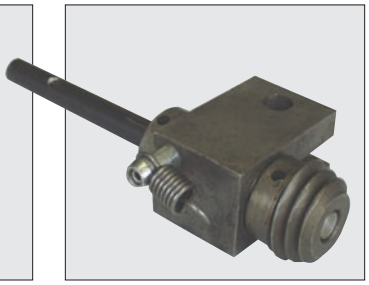
Email: contact@newen.com - **Website:** www.newen.com



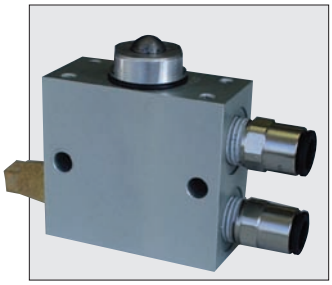
SM373
Replacement mat set.

SM374
Replacement bull'd eye level.

SM375-25-44
Replacement cam-bucket bore protector, 25-44mm.



SM473
Gear drive assembly (axle, bearings, tapered screw, half axles, housing).



SM350
Foot pedal air distributor.

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